Original/Duplicate/Triplicate EE/ELE/Y/BR No.....

CONTRACT CERTIFICATE

(For Other Works)

No. 2 St & Final bill Date.... Dt.....2017

Division: **Electricals (Yelahanka)** Sub-Division: **Electricals**

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....

Sub Divisional **Job Code :-001-13-000004**

Schedule Docket No. Head of Account :**P 2786**

D.R.No. :

Name of Work : Shifting of Electrical utilities of road widening from NH-7 to SWD Bridge along Jakkur road near Raithara Santhe Ward No 01 in Yelahanka. "

Full Name of Contractor and Address: Satya Constructions,No 600 Down Bazar Road Yelahanka .

Reference to Agreement No:EE(Project)/YnkZone/WO/01 /16-17 Date:09/06/2016

Certified that the measurements were taken by me on 27/11/17 and recorded of Pages 120359 to 368 of measurement Book No. 12041(W) and that the work is satisfactorily executed.

Officer-in-charge of work

Contractor

Certified that the measurement were taken by me on ..... and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Executive Engineer(Ele)
Sub-Division Officer
BBMP, Bangalore

II Memorandum of Payment

1) Total value of work done or supplies made as per account within	Bill =	6.14,177=00
2) Deduct amount to be held in reserve being .....percent Rs.....	IT 1%	6142=00
3) " Balance	SGST 1%	6142=00
4) Deduct Payment:	CGST 1%	6142=00
a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... adjusted towards cash advance recovery of	Amount LWC 1%	6142=00
	CBFO.1%	614=00
b) Payments Now made } cost store or other material supplied. recovery of amount creditable to this/other work. Amount paid on this bill Cheque / Cash.	Deductions	25,182=00
	Cheee=	5,88,995=00
5) Balance being unpaid value of work done held in reserve.		
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.		
7) Net amount due to or from Contractor unadjustments items.		
8) Advance to Contractor for materials brought to site (as detailed) within.		
9) Value of Government materials supplied. Total amount adjusted -		

Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum (in final settlement of all demands)

(For use in the Office)

Witness
1.
2.

Stamp

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....

Cash Rs.....Dated.....

Initials of Officer making payment

ಲೆಕ್ಕ ಶೀರ್ಷಿಕೆ P2786 widning and Strenting of Road

ರೂ:6.14.177=00 ಅಡಿಯಲ್ಲಿ ಮಾಡಿ ಸ್ವೀಕರಿಸಿದೆ

ರೂ:5,88,995=00 Executive Engineer

ರೂ:25.182=00 ಚೆಕ್ ಮೂಲಕ ಪಾವತಿಸಿದೆ

ಲೆಕ್ಕ ಅಧೀಕ್ಷಕರು ಕಾ.ಪಾ.ಅ.(ವಿ) ಯಲಹಂಕ ವಲಯ

Sl no	Description of item
	Name of Work : Shifting of Electrical utilities of road widening from NH-7 to SWD Bridge along Jakkur road near Raithara Santhe Ward No 01 in Yelahanka
1	11 Mtrs Spun pole
2	9 Mtr Long RCC Pole.
3	Horizontal X-Arm Set with HTST Support Bolts Nuts, washers & pole clamp
4	4 Pin X arm
5	11 KV Pin Insulator
6	45 KN Disc Insulator
7	1.1 KV Pin Insulator
8	No 8 KN Strain Insulator
9	Guy Set Complete
10	Earthing materials pipe type for grounding
11	Coyote Conductor including 1.5 %
12	Rabbit Conductor including 1.5 %
13	11 Mtrs Spun pole
14	9 Mtr Long RCC Pole.
15	Horizontal X-Arm Set with HTST Support Bolts Nuts, washers & pole clamp
16	4 Pin X arm
17	Guy Set Complete
18	Earthing materials pipe type for grounding
19	Coyote Conductor including 1.5 %
20	Rabbit Conductor including 1.5 %
21	Releasing & Refixing of Spun pole structure
22	Releasing & Refixing of 11 KV 200 A GOS
23	Releasing & Refixing of 11 Horizontal X Arms
24	Releasing & Re- Errection of 100 KVA Transformer Center
25	Releasing and Re-wiring of LT Lead wire
26	LT Metering box with CTs and neccesary wiring for housing ETV Meter (Please see CDS-42)
27	LT Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy
28	8 Mtr PCC Pole
29	Releasing and Re-Refixing of 11 KV Horizontal X Arms
30	Digging of pits 1.8mtr depth for erection of 9 to 10 mtr long steel/RCC/PSC supports as per approved Drawing. Hard Soil
31	Providing cement concrette to poles and guy sets with material and lobour including necessary curing etc.., complete(cost does not include excavation). A) Base Concreating with cc 1:4:8 b) Pole based for 9 mtrs square pole (650X650X150mm)
32	Providing cement concrette to poles and guy sets with material and lobour including necessary curing etc.., complete(cost does not include excavation). B) Pole concreting with cc 1:2:4 (without Coping) a) 9mtrs Support (650X500X1700)
33	Erection of RCC/PSC poles 9 to 10mtr long but in a pit of 1.8mtr
34	Releasing of Pole of 9 Mtrs Long
35	Fixing and wiring as SV/MV light fittings with suitable clamps brackets lamps bolts and nuts using departmental material and departmental ladder vehicle under supervision of departemental staff
36	Releasing of SV/MV light fitting by Using departmental ladder vehicle under supervision of departemental staff
37	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanized, steel wire/steel tap armoured cable with PVC outer sheathing 1.1KV Class I. Class 'A' PVC Cable 3.5 core 35sqmm
38	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/ stoneware pipe/ on wall/ on pole as required. i. In existing trench /duct. b) 25 sqmm to 75 sqmm

Previous		Present Measurement			Total Upto Date		Remarks
Qty.	Cost	Qty.	Rate	Amount	Qty	Cost	
		2	15800	31600.00	2	31600.00	
		2	5800.00	11600.00	2	11600.00	
		5	430.00	2150.00	5	2150.00	
		5	310.00	1550.00	5	1550.00	
		12	103.00	1236.00	12	1236.00	
		6	300.00	1800.00	6	1800.00	
		15	41.00	615.00	15	615.00	
		10	14.00	140.00	10	140.00	
		2	800.00	1600.00	2	1600.00	
		4	1300.00	5200.00	4	5200.00	
		90	93.86	8447.40	90	8447.40	
		90	36.81	3312.90	90	3312.90	
		2	2000.00	4000.00	2	4000.00	
		2	937.00	1874.00	2	1874.00	
		5	88.00	440.00	5	440.00	
		5	85.00	425.00	5	425.00	
		2	300.00	600.00	2	600.00	
		4	500.00	2000.00	4	2000.00	
		90	4.03	362.70	90	362.70	
		90	2.31	207.90	90	207.90	
		2.00	3418	6836.00	2	6836.00	
		1	1000	1000.00	1	1000.00	
		2	167.2	334.40	2	334.40	
		1	1500	1500.00	1	1500.00	
		1	1200	1200.00	1	1200.00	
		1	840	840.00	1	840.00	
		1	1020	1020.00	1	1020.00	
		2	1700	3400.00	2	3400.00	
		2	200	400.00	2	400.00	
		2	1120	2240.00	2	2240.00	
		2	300	600.00	2	600.00	
		2	2185	4370.00	2	4370.00	
		2	603	1206.00	2	1206.00	
		2	500	1000.00	2	1000.00	
		2	530	1060.00	2	1060.00	
		2	500	1000.00	2	1000.00	
		110	160	17600.00	110	17600.00	
		110	7.94	873.62	110	873.62	

39	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.. complete. (As per Civil SR KSRB 1-2, P-7)b. In hard Soil	Per Mtr
40	Supplying, fixing wiring earth electrode for gounding conduits, I.C.Cutouts and other equipments on the meter board using 40mm dia 2.90 thick GI 2.5 mtr long buried in a pit... the pit should be filled with equal proportion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the pipe to the conduit etc, is to be established through GI wire of size as oer ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 12 mm dia.	Each
41	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc c. 35 Sqmm	Each
42	Supplying and Fixing 4 Nos of 590 mm length High Yield Tensile Cold Rolled Pitched threads (680 N/sq mm) 27 mm Bolt dia (Mkt Rate)	No
43	Hire Charges Components for Crane Charges , crane 80 tonnes Sl no 86, code no 1311, Page No XXXX, KPWD SR CIVIL 2012-13	Hr
44	Material Components for Trailor 30 tonne capacity ,Sl no821, Page No XXIX, KPWD SR CIVIL 2012-13	Hr
45	Releasing and Re-Fixing halogen/metal halide/SVL/IL floodlight fitting over existing pole/wall ceiling including clamps ,bolts ,nuts and wiring using suitable capacity wires complete i.e Rs=130.00 for fixing & 0.9 of Rs=130.0	Each
46	Supplying and drawing PVC flexible unarmoured copper control cable of approved make.E) 8c x 2.5Sqmm.1 Group A	Per Mtr
47	Casting of suitable foundation for the 16/20 mtr High mast including designing and cost of all materials like Anchor plates,Template and washers labour charges, all other incidental charges etc,. complete as per specification and Drawing given in KPWD elect SR 2010-11(P.No 107) Detailed Calculation as per CIVIL SR items Enclosed.	Each
48	Supply and fixing of 4 pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc. complete. D) Rating: 100-125 Amps make : Group A	Each
49	Fabricating supplying and mounting MS box made out... SWG suitable for floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer pain and finally finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. a) 14 SWG	Sqcms
50	Supplying and fixing angle iron frame work fabricated out of M.S angle iron... and M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. A).40x40x6mm.	Per Mtr
51	Supplying and fixing of Miniature circuit breakers/on existing MCB distribution boards using necessary fixing materials and C Type Curve, Indicator ON/OFF, energy cross 3 with short circuit breaking capacity of 10K and Complete wiring as required. Class A. make : (L&T, Siemens, MG, Legrand, ABB f).40-63Amps TPN 1) Group 'A'	Each
52	Material Components for Anchor Plates (IS 2062) Sl no 423, code no 0712, Page No XIV, KPWD SR CIVIL 2012-13	Each
53	Material Component Steel wire Rope 40 mm Sl no 258, code no 0958, Page No IX, KPWD SR CIVIL 2012-13	Kgs
54	Supplying High pressure sodium vapour street light luminaire 250wsuitable for use with high pressure sodium vapour lamp with integrated control gear and grey colr powder coated. The fitting shall be non corrosive pressure die cast aluminium housing with high purity anodized aluminium housing with EPDM Gaskets suitable for Outer Dia of pole 40 mm -60 mm. Cable entry through a cable gland with toggle clips. IP65 protection for both optical & electrical compartment. Bottom cover may be with poly carbonate/tempered/ toughened glass.Luminaire efficiency should be > 60 % and ambient temperature >35 deg C. High Intensity Discharge electro magnetic ballast with copper winding of Orthocyclic winding coil. Class H insulated dual coated copper wire. Complaince to IEC 61347-2-9 Safety & IEC 60923-Performance. Winding Temperature rise "Tw-130deg C & temperature sise T=70 deg C. Luminaire shall be suitable to operate on 230/250 V 50 Hz AC supply finish including wiring , Ignitor, condenser, SS Toggles for opening front hingeable glass 250 Wattsa) Group 'A'	Each
55	Supplying & fixing of 32 mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 or rail or RCC pole/wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires complete. Using 32mm dia G.I pipe	Each
56	Supplying and fixing of timer Operating Illuminance Levels I. For Switching ON : < 60 lux for >30 sec II. For Switching OFF : >10 lux for >30 sec Switching Endurance : Minimum 5,000 cycles. • Max. Device Power Insulation Resistance : Minimum 5 Meg Ohms • Operating Temperature Range : -10o C to +55oC (Ambient) • Operating Humidity Range : Upto 95% RH at 40oC Auto Voltage trip levels, Auto High Voltage Sense and Trip : Above 280 VAC, Auto High Voltage Sense and Reset : Below 265 VAC. Auto low voltage sense and trip : Below 150 VAC, Auto low voltage sense and reset : Above 165 VAC, Consumption : 1 Watt at 230 VAC(Approved Rates) Contactor details: supply and fixing of 4 pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc.. complete with AC-3 Rating and As per IS-13947 Rating a) 100-125 amps	Each
	Total Rs	

Certificate Certify that the work has been carried out satisfactorily

Assistant Executive Engineer (Ele)
BBMP, Bangalore

		0	37	0.00	0	0.00	
		4	1450	5800.00	4	5800.00	
		0	210	0.00	0	0.00	
		11	1000	11000.00	11	11000.00	
		10	600	6000.00	10	6000.00	
		20	722	14440.00	20	14440.00	
		10	180	1800.00	10	1800.00	
		50	55	2750.00	50	2750.00	
		1	19300	19300.00	1	19300.00	
		6	5100	30600.00	6	30600.00	
		45000	0.27	12150.00	45000	12150.00	
		14	174	2436.00	14	2436.00	
		4	1000	4000.00	4	4000.00	
		4	160	640.00	4	640.00	
		40	35	1400.00	40	1400.00	
		40	6600	264000.00	40	264000.00	
		40	893	35720.00	40	35720.00	
		5	15300	76500.00	5	76500.00	
				614176.92		614176.92	